

## ABSTRACT

A fuel cell system which reduces voltage variations of a plurality of fuel cells and stabilizes a generated power of a fuel cell stack is provided. The fuel cell system  
5 includes a fuel cell stack having a plurality of fuel cells connected in series, a fuel supply device, an air supply device and a controller. The controller sets at least one of a fuel supply amount and an air supply amount for each fuel cell based on each voltage of the plurality of fuel  
10 cells so that each voltage variation of the plurality of fuel cells may be minimized, and the fuel supply device supplies fuel to each of the fuel cells based on the fuel supply amount of each fuel cell, and/or the air supply device supplies air to each of the fuel cells based on the  
15 air supply amount of each fuel cell.